II. CLAIM AMENDMENTS

1. (Previously Presented) A method, comprising:

performing an adaptive block boundary filtering operation on a block boundary formed between a first decoded image block on a first side of the block boundary and a second decoded image block on a second side of the block boundary, the first decoded image block having been encoded using a first type of prediction encoding method and the second decoded image block having been encoded using a second type of prediction encoding method, wherein at least one parameter of the filtering operation is determined based on the types of the first and second prediction encoding methods.

2. (Previously presented) A method according to Claim 1, wherein the adaptive block boundary filtering operation performed on the block boundary is dependent at least in part on a region type of an image block on a first side of the block boundary and a region type of an image block on a second side of the block boundary.

3. - 5. (Cancelled)

- 6. (Previously Presented) A method according to Claim 1, wherein said at least one parameter is selected from a group comprising: a number of pixels to be examined, a number of pixels to be filtered, a size of a filtering window.
- 7. (Previously presented) A method according to Claim 1, comprising selecting a number of pixels for examination from at least one side of the block boundary, in dependence on the image content of the frame in the environment of the block boundary.
- 8. (Previously presented) A method according to Claim 7, wherein the number of pixels selected for examination depends on a difference in pixel value between pixels across the block boundary.

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9. (Previously presented) A method according to Claim 7, wherein the number of

pixels selected for examination depends on the size of a quantization step used to

quantize coefficients used in encoding the image blocks.

10. (Cancelled)

11. (Previously presented) A method according to Claim 7, further comprising truncating

the number of pixels selected for examination in dependence on the type of prediction

encoding method used to encode an image block in the environment of the block

boundary to give a truncated number of pixels for examination.

12. (Cancelled)

13. (Previously presented) A method according to Claim 1, comprising selecting certain

pixels to be filtered and determining a new value for each pixel to be filtered on the

basis of pixels that appear in a filtering window set around the pixel.

14. (Previously presented) A method according to Claim 7, comprising selecting pixels

to be filtered from the pixels selected for examination.

15. (Previously presented) A method according to Claim 13, wherein the new value of

the pixel is the mean value of the pixels that appear in the filtering window.

16. - 18. (Cancelled)

19. (Previously Presented) A block boundary filter, the filter being arranged to perform

an adaptive block boundary filtering operation on a block boundary formed between a

first decoded image block on a first side of the block boundary and a second decoded

image block on a second side of the block boundary, the first decoded image block

having been encoded using a first type of prediction encoding method and the second

decoded image block having been encoded using a second type of prediction encoding

method, wherein the block boundary filter is arranged to determine a value of at least

one parameter of the adaptive block boundary filtering operation based on the types of

the first and second prediction encoding methods.

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20. (Previously presented) A block boundary filter according to Claim 19, wherein the frame comprises at least one region of image blocks and the filter is arranged to perform said adaptive block boundary filtering operation on the block boundary in dependence at least in part on a region type of an image block on a first side of the block boundary and a region type of an image block on a second side of the block boundary.

21. - 23. (Cancelled)

- 24. (Previously Presented) A block boundary filter according to Claim 19, wherein said at least one parameter is selected from a group comprising: a number of pixels to be examined, a number of pixels to be filtered, a size of a filtering window.
- 25. (Previously presented) A block boundary filter according to Claim 19, wherein the filter is arranged to select a number of pixels for examination from at least one side of the block boundary in dependence on an image content of the frame in the environment of the block boundary.
- 26. (Previously presented) A block boundary filter according to Claim 25, further arranged to select said number of pixels for examination in dependence on the difference in pixel value between pixels across the block boundary.
- 27. (Previously presented) A block boundary filter according to Claim 19, wherein the filter is arranged to select a number of pixels for examination in dependence on the size of a quantization step used to quantize coefficients used in encoding the image blocks.

28. (Cancelled).

29. (Previously presented) A block boundary filter according to Claim 25, wherein the filter is arranged to truncate the number of pixels selected for examination in dependence on the type of prediction encoding method used to encode an image block in the environment of the block boundary.

30. - 31. (Cancelled)

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32. (Previously presented) A block boundary filter according to Claim 19, wherein the filter is arranged to select certain pixels to be filtered and to determine a new value for each pixel to be filtered on the basis of pixels that appear in a filtering window set

33. (Previously presented) A block boundary filter according to Claim 32, wherein the filter is arranged to calculate the new value for each pixel to be filtered as a mean value of the pixels that appear in the filtering window.

34. - 36. (Cancelled)

around the pixel.

37. (Previously presented) A video encoder comprising means for coding and means for decoding a digital video signal by blocks, a block type being defined according to the coding method for a block selected according to a predetermined set of coding types, which encoder comprises a filter for reducing visual artefacts due to a block boundary, wherein the filter is arranged to operate adaptively according to the block types of the frame in the environment of the block boundary.

38. (Previously presented) A video decoder comprising means for reducing visual artefacts in a frame of a digital video signal, which is coded by blocks and then decoded, a block type being defined according to the coding method for a block selected according to a predetermined set of coding types, which video decoder comprises a filter for reducing visual artefacts due to a block boundary, wherein the filter is arranged to operate adaptively according to the block types of the frame in the environment of the block boundary.

39. (Previously presented) A video codec comprising means for coding and decoding a digital video signal by blocks, a block type being defined according to the coding method for a block selected according to a predetermined set of coding types, which video codec comprises a filter for reducing visual artefacts due to a block boundary, wherein the filter is arranged to operate adaptively according to the block types of the frame in the environment of the block boundary.

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40. (Previously presented) A mobile terminal comprising a video codec which comprises means for coding and decoding a digital video signal by blocks, a block type being defined according to the coding method for a block selected according to a predetermined set of coding types, which video codec comprises a filter for reducing visual artefacts due to a block boundary, wherein the filter is arranged to operate adaptively according to the block types of the frame in the environment of the block boundary.

41. (Previously Presented) A storage medium comprising a software program for reducing visual artefacts due to block boundaries between decoded image blocks in a frame of a digital video signal, the software program comprising machine executable code for performing an adaptive block boundary filtering operation on a block boundary formed between a first decoded image block on a first side of the block boundary and a second decoded image block on a second side of the block boundary, the first decoded image block having been encoded using a first type of prediction encoding method and the second decoded image block having been encoded using a second type of prediction encoding method, wherein the software program comprises machine executable code for determining a value of at least one parameter of the adaptive block boundary filtering operation based on the types of the first and second prediction encoding methods.

42. (Previously Presented) A method of video encoding comprising:

performing an adaptive block boundary filtering operation on a block boundary formed between a first decoded image block on a first side of the block boundary and a second decoded image block on a second side of the block boundary, the first decoded image block having been encoded using a first type of prediction encoding method and the second decoded image block having been encoded using a second type of prediction encoding method; and

determining a value of at least one parameter of the adaptive block boundary filtering operation based on the types of the first and second prediction encoding methods.

43. (Previously Presented) A method of video decoding, comprising:

performing an adaptive block boundary filtering operation on a block boundary formed between a first decoded image block on a first side of the block boundary and a second decoded image block on a second side of the block boundary, the first decoded image block having been encoded using a first type of prediction encoding method and the second decoded image block having been encoded using a second type of prediction encoding method; and

determining a value of at least one parameter of the adaptive block boundary filtering operation based on the types of the first and second prediction encoding methods.

44.-53. (Cancelled)

54. (Previously Presented) A video encoder comprising a block boundary filter arranged to perform an adaptive block boundary filtering operation on a block boundary formed between a first decoded image block on a first side of the block boundary and a second decoded image block on a second side of the block boundary, the first decoded image block having been encoded using a first type of prediction encoding method and the second decoded image block having been encoded using a second type of prediction encoding method, wherein the block boundary filter is arranged to determine a value of at least one parameter of the adaptive block boundary filtering operation based on the types of the first and second prediction encoding methods.

55. (Previously Presented) A video decoder comprising a block boundary filter arranged to perform an adaptive block boundary filtering operation on a block boundary formed between a first decoded image block on a first side of the block boundary and a second decoded image block on a second side of the block boundary, the first decoded

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image block having been encoded using a first type of prediction encoding method and the second decoded image block having been encoded using a second type of prediction encoding method, wherein the block boundary filter is arranged to determine a value of at least one parameter of the adaptive block boundary filtering operation based on the types of the first and second prediction encoding methods.

- 56. (Previously Presented) A video codec comprising a block boundary filter arranged to perform an adaptive block boundary filtering operation on a block boundary formed between a first decoded image block on a first side of the block boundary and a second decoded image block on a second side of the block boundary, the first decoded image block having been encoded using a first type of prediction encoding method and the second decoded image block having been encoded using a second type of prediction encoding method, wherein the block boundary filter is arranged to determine a value of at least one parameter of the adaptive block boundary filtering operation based on the types of the first and second prediction encoding methods.
- 57. (Previously Presented) A mobile terminal comprising a block boundary filter arranged to perform an adaptive block boundary filtering operation on a block boundary formed between a first decoded image block on a first side of the block boundary and a second decoded image block on a second side of the block boundary, the first decoded image block having been encoded using a first type of prediction encoding method and the second decoded image block having been encoded using a second type of prediction encoding method, wherein the block boundary filter is arranged to determine a value of at least one parameter of the adaptive block boundary filtering operation based on the types of the first and second prediction encoding methods.
- 58. (Previously presented) A method according to claim 1, wherein the first and second prediction encoding methods are of the same type.
- 59. (Previously presented) A block boundary filter according to claim 19, wherein the first and second prediction encoding methods are of the same type.

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60. (Previously presented) A storage medium according to claim 41, wherein the first and second prediction encoding methods are of the same type.

- 61. (Previously presented) A method of video encoding according to claim 42, wherein the first and second prediction encoding methods are of the same type.
- 62. (Previously presented) A method of video decoding according to claim 43, wherein the first and second prediction encoding methods are of the same type.
- 63. (Previously presented) A video encoder according to claim 54, wherein the first and second prediction encoding methods are of the same type.
- 64. (Previously presented) A video decoder according to claim 55, wherein the first and second prediction encoding methods are of the same type.
- 65. (Previously presented) A video codec according to claim 56, wherein the first and second prediction encoding methods are of the same type.
- 66. (Previously presented) A mobile terminal according to claim 57, wherein the first and second prediction encoding methods are of the same type.
- 67. (Previously Presented) A digital signal processor arranged to perform a method for reducing visual artefacts due to block boundaries according to claim 1.
- 68. (Previously Presented) A digital signal processor comprising a filtering block arranged to perform an adaptive block boundary filtering operation on a block boundary formed between a first decoded image block on a first side of the block boundary and a second decoded image block on a second side of the block boundary, the first decoded image block having been encoded using a first type of prediction encoding method and the second decoded image block having been encoded using a second type of prediction encoding method, wherein the filtering block is arranged to determine a value of at least one parameter of the adaptive block boundary filtering operation based on the types of the first and second prediction encoding methods.

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69. (Previously Presented) A method, comprising:

performing a filtering operation on a block boundary that is dependent at least in part on a prediction encoding method used to encode an image block on a first side of the block boundary.

70. (Previously Presented) A apparatus comprising:

a filter arranged to perform a filtering operation on the block boundary in dependence at least in part on a prediction encoding method used to encode an image block on a first side of the block boundary.

- 71. (Previously presented) A video encoder comprising a filter according to Claim 70.
- 72. (Previously presented) A video decoder comprising a filter according to Claim 70.
- 73. (Previously presented) A mobile terminal comprising a filter according to Claim 70.
- 74. (Previously presented) A method according to claim 1, wherein the first and second type of prediction encoding method is selected from a group of prediction encoding methods comprising at least: intra coding, copy coding, motion-compensated prediction coding, and not-coded coding.
- 75. (Previously presented) A block boundary filter according to claim 19, wherein the first and second type of prediction encoding method is selected from a group of prediction encoding methods comprising at least: intra coding, copy coding, motion-compensated prediction coding, and not-coded coding.
- 76. (Previously presented) A storage medium according to claim 41, wherein the first and second type of prediction encoding method is selected from a group of prediction encoding methods comprising at least: intra coding, copy coding, motion-compensated prediction coding, and not-coded coding.
- 77. (Previously presented) A method of video encoding according to claim 42, wherein the first and second type of prediction encoding method is selected from a group of

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prediction encoding methods comprising at least: intra coding, copy coding, motion-compensated prediction coding, and not-coded coding.

78. (Previously presented) A method of video decoding according to claim 43, wherein

the first and second type of prediction encoding method is selected from a group of

prediction encoding methods comprising at least: intra coding, copy coding, motion-

compensated prediction coding, and not-coded coding.

79. (Previously presented) A video encoder according to claim 54, wherein the first

and second type of prediction encoding method is selected from a group of prediction

encoding methods comprising at least: intra coding, copy coding, motion-compensated

prediction coding, and not-coded coding.

80. (Previously presented) A video decoder according to claim 55, wherein the first

and second type of prediction encoding method is selected from a group of prediction

encoding methods comprising at least: intra coding, copy coding, motion-compensated

prediction coding, and not-coded coding.

81. (Previously presented) A mobile terminal according to claim 57, wherein the first

and second type of prediction encoding method is selected from a group of prediction

encoding methods comprising at least: intra coding, copy coding, motion-compensated

prediction coding, and not-coded coding.

82. (Previously presented) A method according to claim 69, wherein the first and

second type of prediction encoding method is selected from a group of prediction

encoding methods comprising at least: intra coding, copy coding, motion-compensated

prediction coding, and not-coded coding.

83. (Previously presented) A block boundary filter according to claim 70, wherein the

first and second type of prediction encoding method is selected from a group of

prediction encoding methods comprising at least: intra coding, copy coding, motion-

compensated prediction coding, and not-coded coding.

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84. (New) A method comprising:

performing an adaptive block boundary filtering operation on a block boundary formed between a first decoded image block on a first side of the block boundary and a second decoded image block on a second side of the block boundary, the first decoded image block having been encoded using a first type of prediction

encoding method and the second decoded image block having been encoded

using a second type of prediction encoding method,

examining the type of the first prediction method and the second prediction

method, and

determining at least on parameter of the filtering operation on the basis of the

types of the first and second prediction encoding methods.

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